



You have selected a reliable, high-quality dispensing system from Nordson EFD, the world leader in fluid dispensing. The Performus™ I dispensing system was designed specifically for industrial dispensing and will provide you with years of trouble-free, productive service.

This manual will help you maximize the usefulness of your Performus dispensing system.

Please spend a few minutes to become familiar with the controls and features. Follow our recommended testing procedures. Review the helpful information we have included, which is based on more than 50 years of industrial dispensing experience.

Most questions you will have are answered in this manual. However, if you need assistance, please do not hesitate to contact EFD or your authorized EFD distributor. Detailed contact information is provided on the last page of this document.

## The Nordson EFD Pledge

Thank You!

You have just purchased the world's finest precision dispensing equipment.

I want you to know that all of us at Nordson EFD value your business and will do everything in our power to make you a satisfied customer.

If at any time you are not fully satisfied with our equipment or the support provided by your Nordson EFD Product Application Specialist, please contact me personally at 800.556.3484 (US), 401.431.7000 (outside US), or [Jamie.Clark@nordsonefd.com](mailto:Jamie.Clark@nordsonefd.com).

I guarantee that we will resolve any problems to your satisfaction.

Thanks again for choosing Nordson EFD.

*Jamie*  
Jamie Clark, Vice President

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# Nordson EFD Product Safety Statement

## WARNING

The safety message that follows has a WARNING level hazard.  
Failure to comply could result in death or serious injury.



### **ELECTRIC SHOCK**

Risk of electric shock. Disconnect power before removing covers and / or disconnect, lock out, and tag switches before servicing electrical equipment. If you receive even a slight electrical shock, shut down all equipment immediately. Do not restart the equipment until the problem has been identified and corrected.

## CAUTION

The safety messages that follow have a CAUTION level hazard.  
Failure to comply may result in minor or moderate injury.



### **READ MANUAL**

Read manual for proper use of this equipment. Follow all safety instructions. Task- and equipment-specific warnings, cautions, and instructions are included in equipment documentation where appropriate. Make sure these instructions and all other equipment documents are accessible to persons operating or servicing equipment.



### **MAXIMUM AIR PRESSURE**

Unless otherwise noted in the product manual, the maximum air input pressure is 7.0 bar (100 psi). Excessive air input pressure may damage the equipment. Air input pressure is intended to be applied through an external air pressure regulator rated for 0 to 7.0 bar (0 to 100 psi).



### **RELEASE PRESSURE**

Release hydraulic and pneumatic pressure before opening, adjusting, or servicing pressurized systems or components.



### **BURNS**

Hot surfaces! Avoid contact with the hot metal surfaces of heated components. If contact can not be avoided, wear heat-protective gloves and clothing when working around heated equipment. Failure to avoid contact with hot metal surfaces can result in personal injury.

# Nordson EFD Product Safety Statement (continued)

## Halogenated Hydrocarbon Solvent Hazards

Do not use halogenated hydrocarbon solvents in a pressurized system that contains aluminum components. Under pressure, these solvents can react with aluminum and explode, causing injury, death, or property damage. Halogenated hydrocarbon solvents contain one or more of the following elements.

Element	Symbol	Prefix
Fluorine	F	“Fluoro-”
Chlorine	Cl	“Chloro-”
Bromine	Br	“Bromo-”
Iodine	I	“Iodo-”

Check the Safety Data Sheet (SDS) or contact your material supplier for more information. If you must use halogenated hydrocarbon solvents, contact your EFD representative for compatible EFD components.

## High Pressure Fluids

High pressure fluids, unless they are safely contained, are extremely hazardous. Always release fluid pressure before adjusting or servicing high pressure equipment. A jet of high pressure fluid can cut like a knife and cause serious bodily injury, amputation, or death. Fluids penetrating the skin can also cause toxic poisoning.

### WARNING

Any injury caused by high pressure liquid can be serious. If you are injured or even suspect an injury:

- Go to an emergency room immediately.
- Tell the doctor that you suspect an injection injury.
- Show the doctor the following note.
- Tell the doctor what kind of material you were dispensing.

### Medical Alert — Airless Spray Wounds: Note to Physician

Injection in the skin is a serious traumatic injury. It is important to treat the injury surgically as soon as possible. Do not delay treatment to research toxicity. Toxicity is a concern with some exotic coatings injected directly into the bloodstream.

## Qualified Personnel

Equipment owners are responsible for making sure that EFD equipment is installed, operated, and serviced by qualified personnel. Qualified personnel are those employees or contractors who are trained to safely perform their assigned tasks. They are familiar with all relevant safety rules and regulations and are physically capable of performing their assigned tasks.

# Nordson EFD Product Safety Statement (continued)

## Intended Use

Use of EFD equipment in ways other than those described in the documentation supplied with the equipment may result in injury to persons or damage to property. Some examples of unintended use of equipment include:

- Using incompatible materials.
- Making unauthorized modifications.
- Removing or bypassing safety guards or interlocks.
- Using incompatible or damaged parts.
- Using unapproved auxiliary equipment.
- Operating equipment in excess of maximum ratings.
- Operating equipment in an explosive atmosphere.

## Regulations and Approvals

Make sure all equipment is rated and approved for the environment in which it is used. Any approvals obtained for Nordson EFD equipment will be voided if instructions for installation, operation, and service are not followed. If the equipment is used in a manner not specified by Nordson EFD, the protection provided by the equipment may be impaired.

## Personal Safety

To prevent injury, follow these instructions:

- Do not operate or service equipment unless you are qualified.
- Do not operate equipment unless safety guards, doors, and covers are intact and automatic interlocks are operating properly. Do not bypass or disarm any safety devices.
- Keep clear of moving equipment. Before adjusting or servicing moving equipment, shut off the power supply and wait until the equipment comes to a complete stop. Lock out power and secure the equipment to prevent unexpected movement.
- Make sure spray areas and other work areas are adequately ventilated.
- When using a syringe barrel, always keep the dispensing end of the tip pointing towards the work and away from the body or face. Store syringe barrels with the tip pointing down when they are not in use.
- Obtain and read the Safety Data Sheet (SDS) for all materials used. Follow the manufacturer's instructions for safe handling and use of materials and use recommended personal protection devices.
- Be aware of less-obvious dangers in the workplace that often cannot be completely eliminated, such as hot surfaces, sharp edges, energized electrical circuits, and moving parts that cannot be enclosed or otherwise guarded for practical reasons.
- Know where emergency stop buttons, shutoff valves, and fire extinguishers are located.
- Wear hearing protection to protect against hearing loss that can be caused by exposure to vacuum exhaust port noise over long periods of time.

# Nordson EFD Product Safety Statement (continued)

## Fire Safety

To prevent a fire or explosion, follow these instructions:

- Shut down all equipment immediately if you notice static sparking or arcing. Do not restart the equipment until the cause has been identified and corrected.
- Do not smoke, weld, grind, or use open flames where flammable materials are being used or stored.
- Do not heat materials to temperatures above those recommended by the manufacturer. Make sure heat monitoring and limiting devices are working properly.
- Provide adequate ventilation to prevent dangerous concentrations of volatile particles or vapors. Refer to local codes or the SDS for guidance.
- Do not disconnect live electrical circuits when working with flammable materials. Shut off power at a disconnect switch first to prevent sparking.
- Know where emergency stop buttons, shutoff valves, and fire extinguishers are located.

## Preventive Maintenance

As part of maintaining continuous trouble-free use of this product, Nordson EFD recommends the following simple preventive maintenance checks:

- Periodically inspect tube-to-fitting connections for proper fit. Secure as necessary.
- Check tubing for cracks and contamination. Replace tubing as necessary.
- Check all wiring connections for looseness. Tighten as necessary.
- Clean: If a front panel requires cleaning, use a clean, soft, damp rag with a mild detergent cleaner. DO NOT USE strong solvents (MEK, acetone, THF, etc.) as they will damage the front panel material.
- Maintain: Use only a clean, dry air supply to the unit. The equipment does not require any other regular maintenance.
- Test: Verify the operation of features and the performance of equipment using the appropriate sections of this manual. Return faulty or defective units to Nordson EFD for replacement.
- Use only replacement parts that are designed for use with the original equipment. Contact your Nordson EFD representative for information and advice.

# Nordson EFD Product Safety Statement (continued)

## Important Disposable Component Safety Information

All Nordson EFD disposable components, including syringe barrels, cartridges, pistons, tip caps, end caps, and dispense tips, are precision engineered for one-time use. Attempting to clean and re-use components will compromise dispensing accuracy and may increase the risk of personal injury.

Always wear appropriate protective equipment and clothing suitable for your dispensing application and adhere to the following guidelines:

- Do not heat syringe barrels or cartridges to a temperature greater than 38° C (100° F).
- Dispose of components according to local regulations after one-time use.
- Do not clean components with strong solvents (MEK, acetone, THF, etc.).
- Clean cartridge retainer systems and barrel loaders with mild detergents only.
- To prevent fluid waste, use Nordson EFD SmoothFlow™ pistons.

## Action in the Event of a Malfunction

If a system or any equipment in a system malfunctions, shut off the system immediately and perform the following steps:

1. Disconnect and lock out system electrical power. If using hydraulic and pneumatic shutoff valves, close and relieve pressure.
2. For Nordson EFD air-powered dispensers, remove the syringe barrel from the adapter assembly. For Nordson EFD electro-mechanical dispensers, slowly unscrew the barrel retainer and remove the barrel from the actuator.
3. Identify the reason for the malfunction and correct it before restarting the system.

## Disposal

Dispose of equipment and materials used in operation and servicing according to local codes.

# Specifications

**NOTE:** Specifications and technical details are subject to change without prior notification.

Item	Specification
Cabinet size	18.3W x 5.1H x 8.6D cm (7.22W x 2.00H x 3.38D")
Weight	1.0 kg (2.2 lb)
Input AC (to power supply)	100–240 VAC (±10%), ~50/60 Hz, 0.6 A
Output DC (from power supply)	24 VDC, 1.04 A maximum
Internal voltage	24 VDC
Cycle rate	Exceeds 600 cycles per minute
Foot pedal	Voltage: 24 VDC Current: 20 mA
Cycle initiate	Foot pedal, finger switch
Input air pressure	7.0 bar (100 psi) maximum
Air output	1.0–7.0 bar (1–100 psi) dependent on user setting
Ambient operating conditions	Temperature: 5–45° C (41–113° F) Humidity: 85% RH at 30° C non-condensing Height above sea level: 2,000 meters maximum (6,562 feet)
Product classification	Installation category II Pollution degree 2
Approvals	CE, UKCA, TÜV, RoHS, WEEE, China RoHS

## RoHS标准相关声明 (China RoHS Hazardous Material Declaration)

产品名称 Part Name	有害物质及元素 Toxic or Hazardous Substances and Elements					
	铅 Lead (Pb)	汞 Mercury (Hg)	镉 Cadmium (Cd)	六价铬 Hexavalent Chromium (Cr6)	多溴联苯 Polybrominated Biphenyls (PBB)	多溴联苯醚 Polybrominated Diphenyl Ethers (PBDE)
外部接口 External Electrical Connectors	<b>X</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<p><b>0:</b> 表示该产品所含有的危险成分或有害物质含量依照EIP-A, EIP-B, EIP-C 的标准低于SJ/T11363-2006 限定要求。 Indicates that this toxic or hazardous substance contained in all the homogeneous materials for this part, according to EIP-A, EIP-B, EIP-C is below the limit requirement in SJ/T11363-2006.</p> <p><b>X:</b> 表示该产品所含有的危险成分或有害物质含量依照EIP-A, EIP-B, EIP-C 的标准高于SJ/T11363-2006 限定要求。 Indicates that this toxic or hazardous substance contained in all the homogeneous materials for this part, according to EIP-A, EIP-B, EIP-C is above the limit requirement in SJ/T11363-2006.</p>						

## WEEE Directive

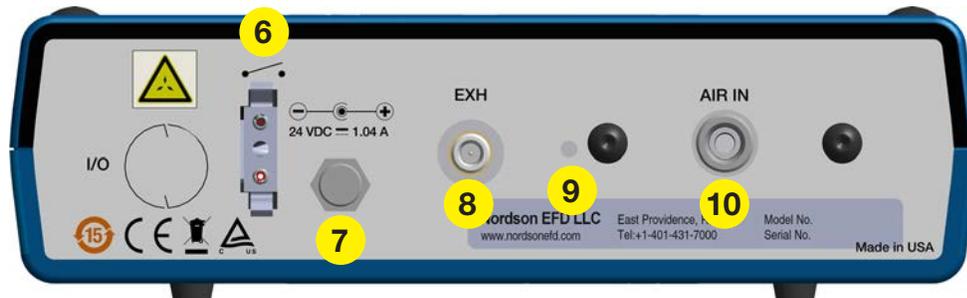


This equipment is regulated by the European Union under WEEE Directive (2012/19/EU). Refer to [www.nordsonefd.com/WEEE](http://www.nordsonefd.com/WEEE) for information about how to properly dispose of this equipment.

## Operating Features



1. Output air regulator adjustment knob — Controls air pressure in syringe barrel
2. Output quick connector — Syringe barrel adapter connection
3. Vacuum control adjustment knob — Controls syringe barrel vacuum
4. Power switch — Main DC power control switch
5. 0–100 psi gauge — Measures syringe barrel air pressure



6. Foot pedal / finger switch connector — Connection for dispenser actuating device
7. Power input jack — DC power input
8. Air exhaust port — Syringe barrel air exit
9. Vacuum exhaust port — Vacuum air exit
10. Air input push-in fitting — Main filtered air supply input

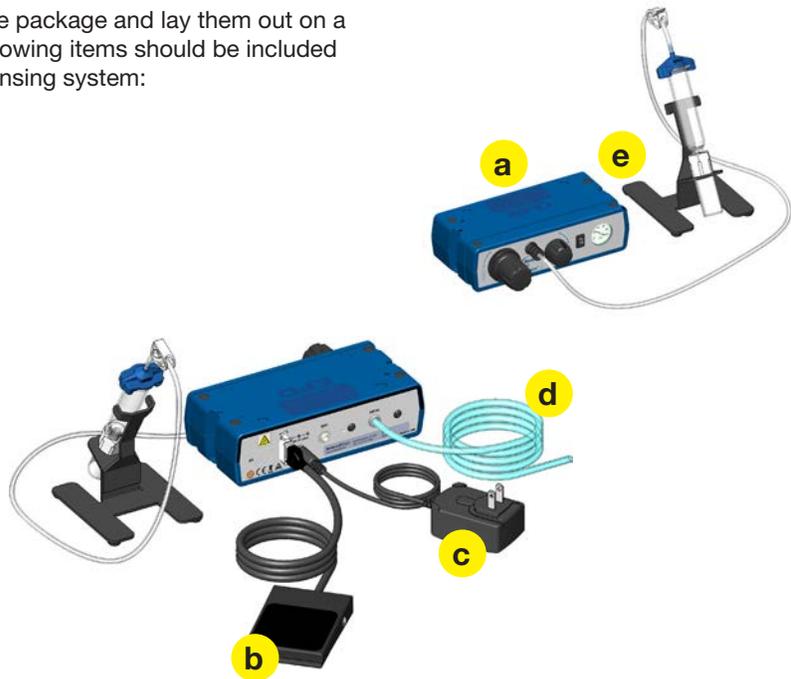
# Installation

## 1

### Unpack Unit

Unpack the contents of the package and lay them out on a clean work bench. The following items should be included with your Performus dispensing system:

- a. Dispenser
- b. Foot pedal assembly
- c. Power supply
- d. Air supply tubing
- e. Syringe barrel stand
- f. Folding wire stand (not shown)



## 2

### Connect Air Supply

**NOTE:** Clean, dry filtered factory air is required to meet warranty. If your air supply is not filtered, order the EFD five micron filter regulator (P/N 7002002).

Turn the air regulator adjustment knob to zero (0) before connecting the main air input to the Performus.

- a. Push one end of the 6 mm air input hose into the input fitting (AIR IN) on the back of the Performus.
- b. Connect the other end of the hose to your plant air supply.
- c. Set plant air supply at minimum 5.5–7.0 bar (80–100 psi).
- d. Keep the vacuum feature turned off by turning the vacuum control knob all the way counter-clockwise. If the fluid you are dispensing is a thin, watery, or low viscosity consistency, proceed to “Using the Vacuum Control Feature for Low Viscosity Fluids” on page 15.



## Installation (continued)

# 3

### Connect Power

- Locate the DC input connection on the back of your Performus dispensing system.
- Insert the DC Plug securely into the input connection.
- Select the proper adapter from the power supply plug kit and then connect the power supply to a grounded power source.

**NOTE:** The power supply is multi-voltage, therefore no external adjustments are required.



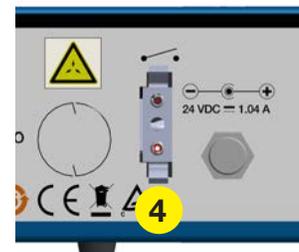
# 4

### Connect Foot Pedal

The Performus is normally operated using the foot pedal provided.

- Connect the foot pedal to the back of the Performus.

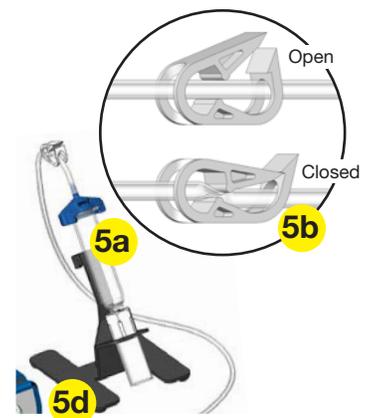
**NOTE:** If you prefer, you can also operate the Performus with an optional finger switch (P/N 7016718).



# 5

### Attach Syringe Barrel / Dispense Tip

- Attach an EFD syringe barrel filled with your fluid to the adapter assembly.
- Snap the safety clip on the adapter hose closed to prevent dripping. Remember to unsnap the clip when ready to dispense.
- Replace the tip cap with an EFD precision dispense tip.
- Place the syringe barrel in the barrel holder.



# 6

### Connect Air Output

- Push in the black male quick-connect on the syringe barrel adapter into the front of the Performus.
- Twist clockwise to lock.



Initial setup is now complete. At this point you are ready to set up your dispensing flow rate and time to suit your application needs.

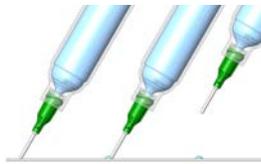
# System Setup and Operation

**NOTE:** Tips and helpful suggestions for setup are provided under “Helpful Hints / Suggestions on Settings” on page 14. Refer to this information as needed during initial setup and testing.

## Dispensing System Setup

1. Pull the air regulator adjustment knob out until it clicks into the unlocked position. Start with the pressure set to zero.
2. Place the syringe barrel over a piece of paper or test surface.
3. Unsnap the safety clip. Depress and hold the foot pedal for the remainder of this setup.
4. While resting the tip on the paper (test surface), SLOWLY turn the air pressure regulator clockwise until fluid starts to exit from the tip.
5. Keep increasing the air pressure until you have reached the desired fluid dispensing flow rate.
 

**NOTE:** Always use the lowest possible pressure and the largest possible tip size. The combination of the lowest possible output pressure + the largest possible tip size + the longest possible dispense duration = the most consistent and accurate deposits.
6. Release the foot pedal.
7. Retest the dispensing rate a few more times. Fine tune as required by making small changes in pressure.
8. Push the air regulator adjustment knob in to lock the setting.



Remember — always bring the tip in contact with the work surface at the illustrated angle. After the tip is in position, press the foot pedal. Release the pedal and remove the tip by lifting straight up.



Correct angle for consistent deposits.

# System Setup and Operation (continued)

## Helpful Hints / Suggestions on Settings

### Helpful Hints

- There are three core variables to the Performus dispenser: dispense time, pressure, and vacuum. Adjust just one of these at a time, in small increments, to achieve the correct deposit.
- Another variable is tip size. Choose the right tip for the deposit type. Remember, smaller tips require more pressure and more dispense time. Try different tips without changing the dispense time or pressure settings and observe the results.
- Tapered tips reduce the amount of air pressure needed to dispense thick materials. They also help prevent drooling at the end of a dispense cycle.
- To ensure smooth fluid flow and to make consistent deposits, keep the dispense tip at a 45° angle to the work surface.
- Use EFD SmoothFlow pistons to make barrel loading, dispensing, and handling cleaner, safer, and more accurate.

### CAUTION

If you dispense watery fluids and choose not to use EFD pistons, do not increase vacuum pressure rapidly and do not tip the barrel. Vacuum may pull fluid into the adapter hose, or, if the syringe barrel is tipped, fluid may flow back into the dispenser.

- Always use new EFD syringe barrels and tips. Carefully dispose of after use. This practice ensures maximum cleanliness, prevents contamination, and provides proper safety.
- Do not completely fill the syringe barrel. For most fluids, optimum fill is a maximum 2/3 of the barrel capacity. For cyanoacrylates or watery fluids, optimum fill is 1/2 of the barrel capacity.

### Suggestions on Settings

- To reduce air pressure, turn the knob counterclockwise until the display reads at a lower-than-needed pressure setting. Then turn clockwise to increase pressure until you reach the correct setting.
- Avoid high pressure settings with very small deposit settings. The ideal setup matches air pressure and tip size to create a workable flow rate — no splashing, but not too slow either.
- With any fluid, always give the air pressure time to do its job. Moderate time and pressure provides the best results since dispensing pressure remains at its peak for a longer period of time.

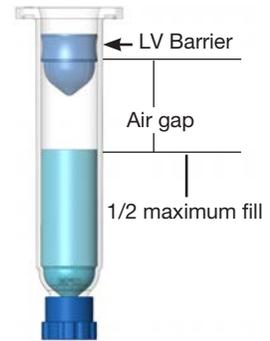
## System Setup and Operation (continued)

### Using the Vacuum Control Feature for Low Viscosity Fluids

The vacuum control feature allows you to dispense low viscosity fluids consistently without dripping between cycles. The vacuum overcomes head pressure on the fluid within the barrel, which prevents dripping.

1. Make sure that you have attached an EFD barrel filled with the fluid intended for dispensing, and that the air pressure is turned all the way to zero. EFD recommends the use of a Blue LV Barrier piston for watery, low viscosity materials.
2. Remove the tip cap and replace it with an appropriate EFD precision dispense tip. Dispense tips are listed on the components poster included with your Performus system.
3. While pointing the tip over a container or resting on a test surface, release the safety clip on the adapter hose assembly.
4. Depress the foot pedal for the duration of this setup.
5. Slowly turn the air regulator adjustment knob up until fluid starts to exit from the tip.
6. Keep increasing the air pressure until you have reached the desired fluid flow rate.
7. Release the foot pedal. At this point, fluid will continue to exit the tip.
8. Slowly turn the vacuum control knob clockwise until the fluid deposit size stabilizes without growing.
 

**NOTE:** Do not increase the vacuum to the point where the deposit is actually sucked back into the tip. Excessive vacuum causes inconsistent dispensing.
9. Lift the tip off the paper, wipe the tip end, and retest by pressing the foot pedal momentarily. The deposit dispensed should stay at the intended size and not increase or decrease in size. If it does, repeat steps 4–8 to fine-tune the vacuum control.



# System Setup and Operation (continued)

## Filling the Syringe Barrel

### Barrel Filling Techniques

 **CAUTION**

Do not completely fill syringe barrels. The optimum fill is a maximum 2/3 of the barrel capacity and 1/2 of the barrel capacity when using the EFD blue LV Barrier piston.

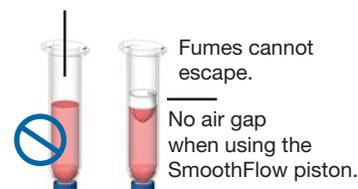
For best results, we strongly recommend that you use a piston as part of your dispensing system. The white EFD SmoothFlow piston is appropriate for most fluids and has several advantages:

- Vacuum adjustment is less sensitive.
- The piston prevents fumes from the fluid being exhausted into the work environment.
- The piston prevents fluid from flowing back into the dispenser if the syringe barrel is inadvertently turned upside down.
- The piston makes it easy and safe to change tips without dripping. For watery solvents and cyanoacrylates, request the blue EFD LV Barrier piston, available in 3cc, 10cc, and 30 / 55 / 70cc sizes. Contact EFD for assistance in selecting a suitable piston.

**Remember**  
For best results, EFD strongly recommends the use of a piston as part of your dispensing system.



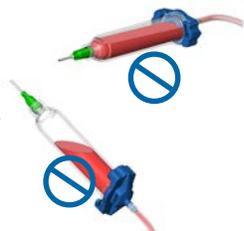
SmoothFlow piston prevents fluid backflow.



Fumes cannot escape.  
No air gap when using the SmoothFlow piston.

If you choose to not use a piston when dispensing thin fluids, remember these important points.

Do not tip the barrel upside down or lay flat. This will cause the liquid to run into the dispenser.



Open



Closed



When changing tips or attaching a tip cap, snap the safety clip completely closed to prevent any dripping or bubbling.

## System Setup and Operation (continued)

### Filling Procedure for Pourable Low and Medium Viscosity Fluids

If the fluid you are dispensing is pourable, take the syringe barrel, twist on tip cap and pour your fluid in. Insert a white SmoothFlow piston and carefully press down until it contacts the fluid. The syringe barrel is now ready for use.

### Filling Procedure for Thick Fluids

If your fluid is thick or non-leveling, you can spoon it into the syringe barrel with a spatula. Or, if the fluid comes packed in a 1/10 gallon (300 mL) cartridge, try loading the barrel with a caulking gun. Then, press the SmoothFlow piston to move the fluid to the bottom of the syringe barrel and remove trapped air.

Trapped air in thick fluids can lead to drooling and oozing. Also, repetitive air cycles can bore tunnels through non-leveling fluids, causing spitting and inconsistent deposits. The SmoothFlow piston eliminates these problems. It prevents tunneling by providing a barrier to the pulsed-air cycles. And it prevents oozing by responding to the pressure of trapped air with a slight suck-back movement after the dispense cycle.

## System Setup and Operation (continued)

### Syringe Barrel Filling Alternatives

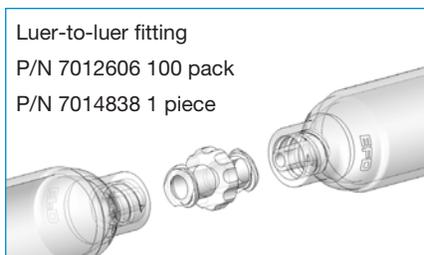
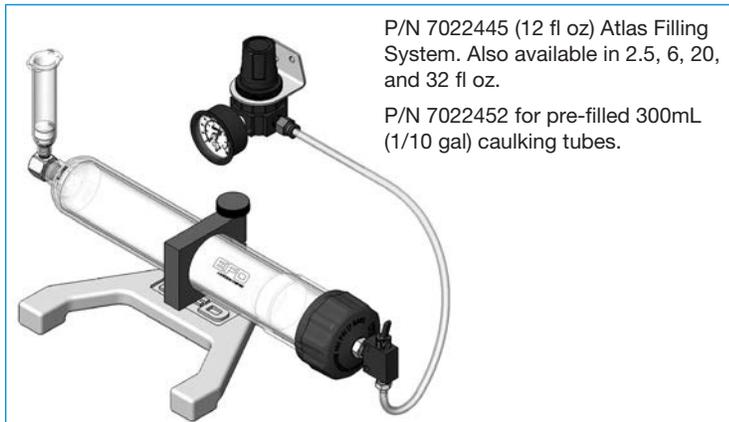
Nordson EFD offers productive alternatives to traditional syringe barrel filling methods. Here are a few suggestions that can help keep your work area clean, save time, and reduce the chance of entrapped air in the fluid.

- Use the Atlas™ Filling System, P/N 7022445 (12 fl oz). Pack the fluid into a 2.5 fl oz, 6 fl oz, 12 fl oz, 20 fl oz, or 32 fl oz cartridge as shown. Then place the pre-filled cartridge into the barrel loader. Using air pressure, the barrel loader fills the syringe barrel (with a piston installed) from the bottom up.

If the fluid comes packed in a 300 mL (1/10 gallon) caulking type cartridge, use the EFD P/N 7022452 filling system.

- If you receive frozen epoxies or other fluids in medical type syringes with a manual plunger, request the EFD luer-to-luer fitting to transfer the material.

Contact an EFD fluid application specialist for additional assistance.



## Part Number

Part #	Description
7012330	Performus I dispenser Features a 0–100 psi pressure regulator that handles all fluids.

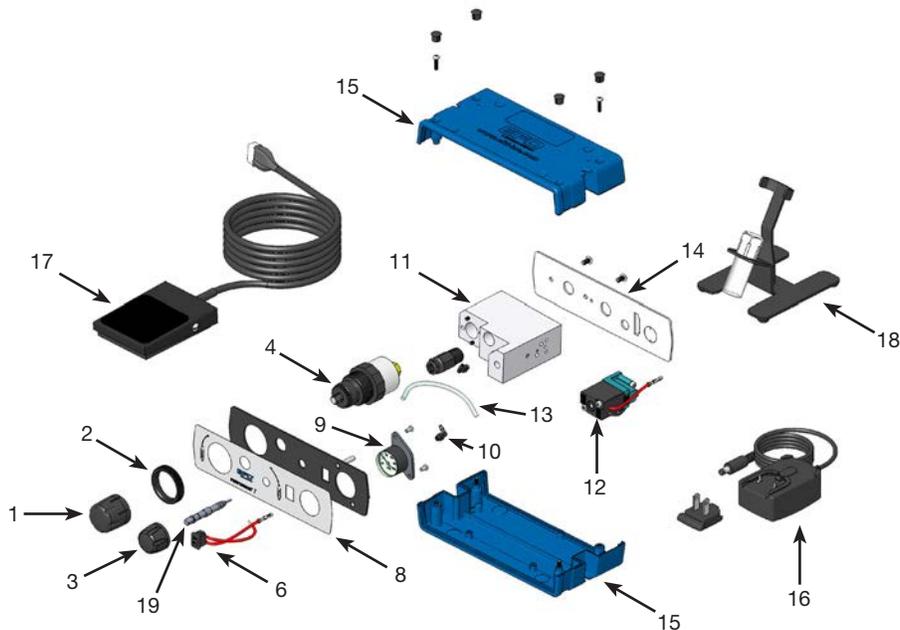
## Accessories

See the Dispenser Accessories data sheet for a complete list of optional accessories that will maximize the performance of your dispenser. Visit [www.nordsonefd.com/DispenserAccessories](http://www.nordsonefd.com/DispenserAccessories) for details.

## Replacement Parts

Item	Part #	Description
1	7012274	Regulator knob, black
2	—	Regulator bezel
3	7017073	Vacuum rotary dial knob
4	7012277	Regulator assembly, 0–100 psi
5	7014752	Regulator replacement O-rings*
6	—	On / off rocker switch assembly
7	7012595	Quick connector assembly kit*
8	—	Overlay, front, Performus I
9	—	Gauge, pressure, 0–100 psi
10	—	Fitting, 10-32 x 3/32 barb, elbow
11	7012293	Manifold assembly, Performus I
12	7012298	Valve, solenoid assembly, Performus I
13	7016761	Urethane tubing (12")
14	—	Panel, rear, Performus I
15	7022009	Case, pack of 2, top / bottom
16	7015199	Universal power supply kit
17	7014865	Foot pedal assembly
18	7016728	Barrel stand with bottle
19	—	Stem, vacuum control

\*Not Shown



## Troubleshooting

An EFD Customer Service or Technical Services representative is always available to assist you with any question you may have about your Performus dispensing system.

Problem	Solution
No power	Check the power supply connection and DC power supply to the unit.
No fluid being dispensed	Check the main air supply and primary regulator.
	Check to make sure that the main air supply is connected to the back of the unit and has not come loose.
	Check to make sure that the regulator is not turned off (fully counterclockwise).
	If dispensing thicker materials, try increasing output air pressure slightly.
Inconsistent dispense output	Check the dispensing tip, barrel, and material for possible contamination or clogs. <b>NOTE:</b> Dispensing system components are disposable. Do not attempt to reuse.
	Check for air supply pressure fluctuation.
	Air bubbles in the fluid path and entrapped air within the fluid may cause inconsistency. For best dispensing results, remove all entrapped air before dispensing.
Material suck-back	Always use an appropriate piston to prevent material from being drawn back into the dispenser. For thick-to medium-viscosity fluids, use EFD SmoothFlow pistons. For thin, low-viscosity fluids, use EFD LV Barrier pistons.
	Another option is to order optional barrel adapters with filter traps. Part numbers for all adapters are listed on the components poster included with your Performus system.

## NORDSON EFD ONE YEAR LIMITED WARRANTY

This Nordson EFD product is warranted for one year from the date of purchase to be free from defects in material and workmanship (but not against damage caused by misuse, abrasion, corrosion, negligence, accident, faulty installation, or by dispensing material incompatible with equipment) when the equipment is installed and operated in accordance with factory recommendations and instructions.

Nordson EFD will repair or replace free of charge any defective part upon authorized return of the part prepaid to our factory during the warranty period. The only exceptions are those parts which normally wear and must be replaced routinely, such as, but not limited to, valve diaphragms, seals, valve heads, needles, and nozzles.

In no event shall any liability or obligation of Nordson EFD arising from this warranty exceed the purchase price of the equipment.

Before operation, the user shall determine the suitability of this product for its intended use, and the user assumes all risk and liability whatsoever in connection therewith. Nordson EFD makes no warranty of merchantability or fitness for a particular purpose. In no event shall Nordson EFD be liable for incidental or consequential damages.

This warranty is valid only when oil-free, clean, dry, filtered air is used, where applicable.



For Nordson EFD sales and service in over 40 countries, contact Nordson EFD or go to [www.nordsonefd.com](http://www.nordsonefd.com).

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